

WHAT IS CLAIMED IS:

1. A light source device capable of repressing the light surge, the light source device being used in a flatbed scanner to provide a light beam to scan a document, the flatbed scanner having an image sensor and an image signal inlet for receiving light beam from the document, the light source device comprising:
 - a bent lamp having two bent parts at two ends for generating the light beam and compensating for the brightness at two ends of the bent lamp; and
 - a set of obscuring units fixed at the two bent parts to partially obscure the light of the lamp, respectively, so as to repress the light surge caused at the image sensor;wherein the bent parts of the lamp is bent toward the image signal inlet.
2. The light source device according to claim 1, wherein the two bent parts of the bent lamp are bent substantially vertically.
3. The light source device according to claim 2, wherein a distance between the inner sides of the two ends of the bent lamp is smaller than an effective scan distance of the image sensor.
4. The light source device according to claim 2, wherein the light angle from the lamp to the terminal of the image signal inlet is smaller than the lens half angle.
5. The light source device according to claim 1, wherein each of the obscuring units is an opaque component.

6. The light source device according to claim 4, wherein each of the obscuring units is made of metal.
7. The light source device according to claim 1, wherein each of the obscuring units is a translucent component.
- 5 8. The light source device according to claim 1, wherein the obscuring units are coated on the lamp.
9. The light source device according to claim 1, wherein the image sensor is a charge coupled device.
10. The light source device according to claim 9, wherein the light source
10 device is fixed to a carriage in the flatbed scanner.
11. The light source device according to claim 10, wherein the obscuring units and the carriage are integrally formed.